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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,070	03/30/2001	Priya Rajagopal	042390.P10458	8238
7590 08/08/2005			EXAMINER	
Gordon R. Lir	ndeen III	NGUYEN, DUSTIN		
BLAKELY, SC	KOLOFF, TAYLOR &	ZAFMAN LLP		·
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2154	
Los Angeles, CA 90025-1026			DATE MAILED: 08/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>				
	Application No.	Applicant(s)				
Office Action Commence	09/823,070	RAJAGOPAL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dustin Nguyen	2154				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period with Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 June 2005.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-20 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	election requirement					
o) Claim(s) are subject to restriction and/or	ciconon requirement.					
Application Papers		•				
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment/s\						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	atent Application (PTO-152)				
S. Patent and Trademark Office						

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## **DETAILED ACTION**

1. Claims 1 - 20 are presented for examination.

#### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/13/2005 has been entered.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 3-5, 11, 12, 16 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - A. The following terms lack antecedent basis:
    - I. the time claims 3-5, 11, 12, 16 and 17.

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# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubo et al. [US Patent No 6,832,326], in view of Grimwood et al. [US Patent No 6,243,369].
- 7. As per claim 1, Kubo discloses the invention substantially as claimed including a method comprising:

obtaining a processor tick counter value from a first processing engine [ i.e. read out tick value ] [ P3, Figure 5; and col 9, lines 36-56 ];

comparing the obtained processor tick counter value to a processor tick counter value from a second processing engine [ i.e. read out tick value of the master CPU ] [ Figure 5; and col 56-col 10, lines 20 ].

Kubo does not specifically disclose

determining a timing offset using the comparison; and

sending the timing offset to the first processing engine to apply to operations which are normalized to the timing of the second processing engine.

Grimwood discloses

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determining a timing offset using the comparison [i.e. offset calculation] [col 21, lines 48-col 22, lines 18]; and

sending the timing offset to the first processing engine to apply to operations which are normalized to the timing of the second processing engine [ i.e. using range algorithm to determine an offset value for synchronization ] [ col 2, lines 55-col 3, lines 14; and col 59, lines 64-col 60, lines 35 ].

It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Kubo and Grimwood because Grimwood's teaching of determining timing offset would provide a precise alignment of timing for synchronization.

- 8. As per claim 2, Kubo discloses wherein obtaining a processor tick counter value comprises sending a request message from the second processing engine to the first processing engine, and receiving a reply from the first processing engine at the second processing engine [ P1-P3, Figure 5; and col 9, lines 45-56].
- 9. As per claim 3, Kubo discloses wherein the processor tick counter value at the second processing engine is determined by recording the time at which the request message is sent [i.e. measure propagation delay [ Tick sync-out ] ] [ col 9, lines 56-65 ].
- 10. As per claim 4, Kubo discloses wherein the processor tick counter value at the second processing engine is determined by recording the time at which the reply is received [i.e Tick.syn-in] [col 9, lines 66-col 10, lines 8].

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- 11. As per claim 5, Kubo does not specifically disclose repeating sending a request message, recording the time, receiving a reply, recording the time and determining a timing offset until the determined timing offsets are within a predetermined variability range. Grimwood discloses repeating sending a request message, recording the time, receiving a reply, recording the time and determining a timing offset until the determined timing offsets are within a predetermined variability range [ i.e. ranging process ] [ Abstract; col 1, lines 30-42; and col 4, lines 62-col 5, lines 18 ]. It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Kubo and Grimwood because Grimwood's teaching of repeating steps would allow to determining accurate timing offset to prevent transmission error.
- 12. As per claim 6, Grimwood discloses applying a time stamp to a message sent from the second processor, the time stamp being determined by applying the determined timing offset [ Abstract ].
- 13. As per claim 7, Grimwood discloses receiving an instruction having an execution time and interpreting the execution time by applying the determined timing offset [ col 4, lines 17-61 ].
- 14. As per claim 8, Grimwood discloses obtaining a processor frequency from the first processing engine; obtaining a processor frequency from the second processing engine; and correcting the timing offset for any difference between the first processing engine frequency

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and the second processing engine frequency [ col 6, lines 63-col 7, lines 7; and col 32, lines 34-67].

- 15. As per claims 9-12, they are program product claimed of claims 1-4, they are rejected for similar reasons as stated above in claims 1-4.
- 16. As per claim 13, it is program product claimed of claim 8, it is rejected for similar reasons as stated above in claim 8.
- 17. As per claims 14-17, they are apparatus claimed of claims 1-4, they are rejected for similar reasons as stated above in claims 1-4.
- 18. As per claims 18-20, they are apparatus claimed of claims 6-8, they are rejected for similar reasons as stated above in claims 6-8.
- 19. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.
- 20. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in ABANDONMENT of the application (see 35 U.S.C 133, M.P.E.P 710.02, 710.02(b)).

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dustin Nguyen whose telephone number is (571) 272-3971. The

examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Follansbee John can be reached on (571) 272-3968. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dustin Nguyen Examiner

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JOHN FOLLANSBEE
(SUPERVISORY PATENT EXAMINER